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Title: JP63141001A2: PRODUCTION OF PLASTIC LENS

Derwent Title: Plastic lens mfr. - by applying polyurethane resin soln. to lens substrate, heating, applying primer layer and hardener layer, etc. [Excerpt Record]

Country: JP Japan

Kind: A (See also: JP06079084B4)

Inventor: SAKAMOTO TAKESHI;

SUGIMURA MITSUO.

Assignee: HOYA CORP

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Published / Filed: 1988-06-13 / 1986-12-04

Application Number: JP1986000287680

IPC Code: Advanced: G02B 1/04; G02B 1/10;

Core: more...

IPC-7: G02B 1/04; G02B 1/10;

Priority Number: 1986-12-04 JP1986000287680

Abstract:

PURPOSE: To impart superior impact resistance to a plastic lens by forming a primer layer by coating polyurethane resin soln. on the surface of a substrate of the plastic lens and heat treating the coated layer, providing further a hardened layer comprising silicone resin, then forming an antireflection film by the vapor deposition of an inorg. material.

CONSTITUTION: A primer layer having 0.01W0.03µm film thickness is formed by coating polyurethane resin soln. on the surface of a substrate of plastic lens and heat treating the coated film. Then, a hardened layer comprising silicone resin is formed, and a single layered or multilayered antireflection film is formed on its surface by the vapor deposition of an inorg. material. Particularly preferred film thickness of the primer layer is 1W0.03µm. If the film thickness is <0.01µm, the improving effect for the

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Impact resistance is insufficient. If it exceeds 30µm, the precision of the coated lens surface is inferior. By this constitution, a plastic lens having extremely superior appearance, abrasion resistance, scratch resistance, adhesion as well as impact resistance is obtained.

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Family:

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<input checked="" type="checkbox"/>	JP63141001A2	1988-06-13	1986-12-04	PRODUCTION OF PLASTIC LENS
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2 family members shown above				

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References:

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Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
<input checked="" type="checkbox"/>	US7128414	2006-10-31	Mulsener, Richard	Esilor International Compagnie Generale d'Optique	Methods for coating lenses
<input checked="" type="checkbox"/>	USRC39343	2006-10-17	Kagai, Kazumori	Asahi Life Optical Co., Ltd.	Plastic lenses for spectacles with high refractive indices
<input checked="" type="checkbox"/>	US6986857	2006-01-17	Klemm, Karl Arthur	Esilor International Compagnie Generale D'Optique	Method for preparing a mold part useful for transferring a coating onto an optical substrate
<input checked="" type="checkbox"/>	US6919134	2005-07-19	Mitsushiri, Takeshi	HOYA Corporation	Optical element having antireflection film
<input checked="" type="checkbox"/>	US6911055	2005-06-28	Bailet, Gilles	Esilor International Compagnie General d'Optique	Method for coloring a transparent article made of polycarbonate and resulting article
<input checked="" type="checkbox"/>	US6890458	2005-05-10	Weber, Steven	Esilor International Compagnie General d'Optique	Method for forming on-site a coated optical article
<input checked="" type="checkbox"/>	US687402	2005-05-03	Klemm, Karl A.	Esilor International Compagnie General d'Optique	Method for transferring from a mold a hydrophobic top coat onto an optical substrate
<input checked="" type="checkbox"/>	US6860125	2004-01-20	Sasaki, Kunio	HOYA Corporation	Coating composition and method for preparing the same, and scratch-resistant plastic lens
<input checked="" type="checkbox"/>	US6391433	2002-05-21	Jiang, Jian	HOYA Corporation	Coating composition and thin film layer for optical parts
<input checked="" type="checkbox"/>	US6248431	2001-06-19	Jiang, Jian	HOYA Corporation	Coating composition for optical parts thin film layer made of it and optical part comprising
<input checked="" type="checkbox"/>	US6070979	2000-06-06	Kagai, Kazumori	Asahi Life Optical Co., Ltd.	Plastic lenses for spectacles with high refractive indices
<input checked="" type="checkbox"/>	US6051310	2000-04-18	Cano, Jean Paul	Esilor International- Compagnie Generale D'Optique	Ophthalmic lens made of organic glass with a shockproof intermediate layer, and method for making same

Other Abstract
Info:



US5693366

1997-12-02

Mase, Shoji

Nippon Sheet Glass Co., Ltd.

Process for producing plastic lens comprising a primer layer, a hard coat layer, and an antireflection coating

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